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(74) Agents: FUIERER, Marianne et al.; Intellectual Property/Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709 (US).

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(71) Applicant (for all designated States except US): UNIVERSITY OF MARYLAND BIOTECHNOLOGY [US/US]; Institute Off. Of Research Admin./Tech. Dev., 701 E. Pratt Street, Suite 200, Baltimore, MD 21202 (US).

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(72) Inventors; and

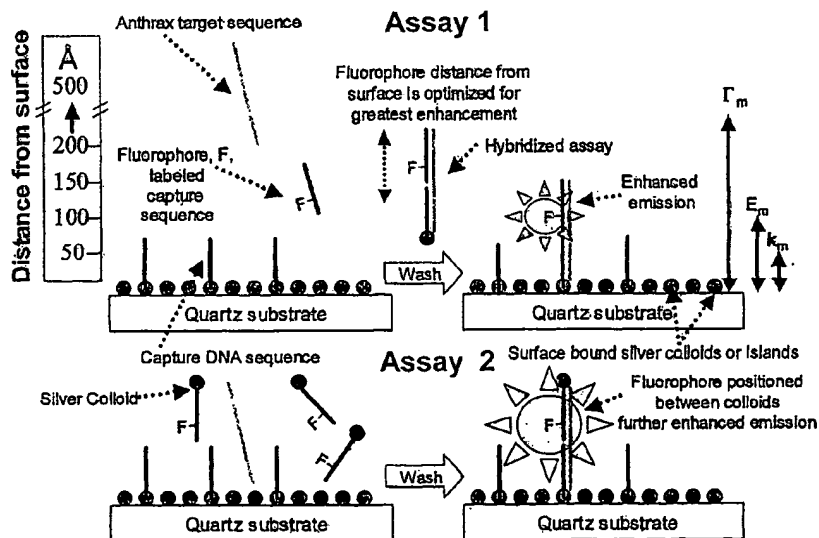
(75) Inventors/Applicants (for US only): GEDDES, Chris, D. [GB/US]; 15 Charles Plaza, Apartment 805, Baltimore, MD 21201 (US). LAKOWICZ, Joseph, R. [US/US]; 10037 Fox Den Road, Ellicott City, MD 21046 (US). BAILLIE, Les [GB/US]; 7356 Eden Brook Drive, Apartment 715, Columbia, MD 21046 (US).

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(54) Title: HIGH-SENSITIVITY ASSAYS FOR PATHOGEN DETECTION USING METAL-ENHANCED FLUORESCENCE



(57) Abstract: The present invention relates to an assay including a surface having silver colloids or islands attached thereto. Attached to the surface and/or silver colloids/islands are polynucleotides which are complementary to a target polynucleotide sequence. The assay is performed by adding the target polynucleotide sequence to the assay surface and allowed to hybridize with the capture polynucleotides. Fluorophore-labeled capture polynucleotides are added and hybridize to the target polynucleotide. Bound target polynucleotides are detected by metal enhanced fluorescence.